

*Box B*  
IUBMB Enzyme Nomenclature

## EC 1.2.2.2

**Common name:** pyruvate dehydrogenase (cytochrome)

**Reaction:** pyruvate + ferricytochrome  $b_1$  +  $H_2O$  = acetate +  $CO_2$  + ferrocyclochrome  $b_1$

**Glossary:** thiamine diphosphate

**Other name(s):** pyruvate dehydrogenase; pyruvic dehydrogenase; pyruvic (cytochrome  $b_1$ ) dehydrogenase; pyruvate:ubiquinone-8-oxidoreductase; pyruvate oxidase

**Systematic name:** pyruvate:ferricytochrome- $b_1$  oxidoreductase

**Comments:** A flavoprotein requiring thiamine diphosphate.

**Links to other databases:** BRENDA, EXPASY, KEGG, ERGO, CAS registry number: 9079-84-9

**References:**

1. Williams, F.R. and Hager, L.P. A crystalline flavin pyruvate oxidase. *J. Biol. Chem.* 236 (1961) PC36-PC37.

[EC 1.2.2.2 created 1961]

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